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Application # 10/622,259

Attorney Docket # 2002P20760US01 (1009-029)

AMENDMENTS

Amendments to Claims

1.   (Currently Amended) A system comprising:

a cellular telephone modem; and

a programmable cable comprising a first end connectable to a <u>programmable logic controller (PLC)</u> and a second end connectable to said cellular telephone modem<u>, said programmable cable adapted to communicatively couple said PLC and said cellular telephone modem</u>;

said programmable cable adapted to store ~~at least one of~~ a plurality of configuration parameters ~~comprising~~ <u>and</u> a PIN number;

said programmable cable adapted to, in an operative embodiment, automatically configure said cellular telephone modem by communicating at least one of the configuration parameters <u>and the PIN number</u> to said cellular telephone modem.

2.   (Currently Amended) A device comprising:

a programmable cable comprising a first end connectable to <u>and communicable with</u> a <u>programmable logic controller (PLC)</u> and a second end connectable to a network communications device<u>, said programmable cable adapted to communicatively couple said PLC and said network communications device</u>, the network communications device further couplable to a user interface device;

said programmable cable adapted to store at least one of a plurality of configuration parameters;

in an operative embodiment, said programmable cable adapted to automatically configure the network communications device by communicating at least one of ~~a~~ <u>the</u> plurality of configuration parameters <u>and a PIN number</u> to the network communications device ~~comprising a PIN number~~.

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3.   (Currently Amended) The device of claim 2, wherein the network ~~interface~~ communications device is a cellular telephone modem.

4.   (Currently Amended) The device of claim 2, wherein the network ~~interface~~ communications device is a telephone modem.

5.   (Currently Amended) The device of claim 2, wherein the configuration parameters further comprise a setup string for the network communications ~~interface~~ device.

6.   (Currently Amended) The device of claim 2, wherein the network ~~interface~~ communications device is couplable to the user interface device via a network.

7.   (Currently Amended) The device of claim 2, wherein the network ~~interface~~ communications device is couplable to the user interface device via a cellular network.

8.   (Currently Amended) The device of claim 2, wherein the network ~~interface~~ communications device is couplable to the user interface device via the Internet.

9.   (Currently Amended) A device comprising:
      a programmable cable comprising, a first end connectable to a network couplable to a programmable logic controller (PLC), and a second end connectable to a network communications device; the network communications device further couplable to a user interface device, the PLC communicable with said user interface using said programmable cable; and
      said programmable cable programmable to store at least one of a plurality of configuration parameters comprising: a mode of operation, a PPI protocol, a cable locality mode, a data transfer speed, a communication language, and an identifying PIN number.

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10. (Original) The device of claim 9, wherein said programmable cable further adapted to, in an operative configuration, serve as a token holding master on the network adapted to multiplex networked communications with the PLC.

11. (Original) The device of claim 9, wherein in an operative embodiment, said programmable cable adapted to automatically configure the network communications device by communicating at least one of a plurality of configuration parameters to the network communications device.

12. (Original) The device of claim 9, wherein said second end of said programmable cable comprises an RS232 network connector.

13. (Original) The device of claim 9, wherein said second end of said programmable cable comprises a USB network connector.

14. (Currently Amended) A method comprising the activities of:

providing a programmable cable comprising a first end and a second end, the first end connectable to a programmable logic controller (PLC), the second end connectable to a cellular telephone modem, a user interface device couplable to a network comprising the programmable cable, the PLC, and the cellular telephone modem, said programmable cable adapted to communicatively couple said PLC and said cellular telephone modem; and

automatically configuring the cellular telephone modem by the programmable cable.

15. (Original) The method of claim 14, wherein said automatically configuring activity occurs during a power-cycling of the programmable cable.

16. (Original) The method of claim 14, wherein said automatically configuring activity occurs after power-cycling the programmable cable.

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17.   (Original) The method of claim 14, further comprising automatically from the programmable cable to the network communications device at least one of a plurality of configuration parameters.

18.   (Currently Amended) The method of claim 14, further comprising:
~~the programmable cable using~~ via the user interface device through the network, ~~by~~
setting at least one of a plurality of programmable cable configuration parameters comprising: a mode of operation, a PPI protocol, a cable locality mode, a data transfer speed, a communication language, and an identifying PIN number.

19.   (Original) The method of claim 14, further comprising initializing the programmable cable using the user interface device through the network by setting at least one of a plurality of configuration parameters comprising a network communications device setup string and a PIN number.

20.   (Original) The method of claim 14, further comprising initializing the programmable cable by setting at least one of a plurality of configuration parameters comprising a network communications device setup string and a PIN number.

21.   (Original) The method of claim 14, further comprising initializing the programmable cable by setting at least one of a plurality of configuration parameters comprising a PIN number.

22.   (Original) The method of claim 14, wherein said activity of automatically configuring the cellular telephone modem by the programmable cable further comprises communicating at least one of a plurality of configuration parameters, comprising cellular telephone modem setup string and a PIN number, to the cellular telephone modem.

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23.   (Original) The method of claim 14, further comprising encrypting communications between the user interface device and the PLC.

24.   (Original) The method of claim 14, further comprising encrypting communications between the programmable cable and the PLC.

25.   (Original) The method of claim 14, further comprising encrypting communications between the programmable cable and the user interface device.

26.   (Currently Amended) A method comprising the activities of:

providing a programmable cable comprising a first end connectable to a network and a second end connectable to a network communications device, a user interface device couplable to a network comprising the programmable cable, a programmable logic controller (PLC) and

— page 8 cut off.

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found in Halang at least at page 3.

Thomas Does Not Teach a Programmable Logic Controller (PLC)

23. Each of pending claims 1-32 of the present application recite a "programmable logic controller."

24. The present Office Action recites:

     A. regarding claim 1 at Page 2, "Thomas teaches a system comprising: ... a PLC (communication interface device, element 20, figure 1)";

     B. regarding claim 2 at Page 3, "Thomas teaches a device comprising: ... a PLC (communication interface device, element 20, figure 1)";

     C. regarding claim 14 at Page 4, "Thomas teaches a method comprising the activities of: ... a PLC (communication interface device, element 20, figure 1)"; and

     D. regarding claim 9 at Page 7, "Thomas teaches a device comprising: ... a PLC (communication interface device, element 20, figure 1)".

25. The present Office Action recites, regarding claim 26, "Thomas teaches a method comprising the activities of: providing a programmable cable ... a network comprising the programmable cable, a PLC, and the network communications device (cellular phone system, column 3, lines 8-15)". *See* Page 6.

26. One skilled in the art would find the statements of the Office Action recited in paragraphs 24 and 25 factually incorrect as of 23 December 2002, the priority date

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claimed by the present Application.

27. Instead, one having ordinary skill in the art as of 23 December 2002, the priority date of the present application, would construed the phrase "programmable logic controller" according to the definition of paragraph 14, *supra.*

28. One skilled in the art would have found that Thomas merely teaches a "communications interface device" for a "computer". *See* FIG 1.

29. Thus, one skilled in the art would not have found that Thomas teaches a "programmable logic controller".

I further declare that all statements made herein of my own knowledge are true and that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code and that willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signed this 7th day of August, 2006

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Dr. Ronald D. Williams

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